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### FIGURE 1A

#### CHIR 12.12 light chain:

leader:

MALPAQLLGLLMLWVSGSSG

variable:

DIVMTQSPLSLTVTPGEPASISCRSSQSLLYSNGYNYLDWYLQKPGQSPQVLISLGSNRASG VPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMOAROTPFTFGPGTKVDIR

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK DSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

# FIGURE 1B

### CHIR-12.12 heavy chain:

leader:

MEFGLSWVFLVAILRGVQC

variable:

QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYEESNRYHAD SVKGRFTISRDNSKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGTLVTVSS

#### constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGL YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV MHEALHNHYTQKSLSLSPGK

#### alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGL YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV MHEALHNHYTQKSLSLSPGK 2/6

# **FIGURE 2A**

DNA sequence of light chain of CHIR-12.12:

# FIGURE 2B

DNA sequence of heavy chain of CHIR-12.12 (including introns):

ggtccagcctgggaggtccctgagactctcctgtgcagcctctggattcaccttcagtagctatggcatgcactgggtccgccaggctccagg caagg get gg agt gg cagt tatat catat gaggaa agt a at a gatac cat gc agact ccg t gaagg gc cg at t caccato to caga a gaca attoca agat cac gct gt at ct gcaa at gaa cag cct caga act gag gaca ct gct gt gt attact gt gcga gag at the company of thegggggtatagcagcacctgggcctgactactggggccagggaaccctggtcaccgtctcctcagcaagtaccaagggcccatccgt cttcccctggcgcccgctagcaagagcacctctgggggcacagcggccctgggctgcctggtcaaggactacttccccgaaccgg tgacggtgtcgtggaactcaggcgccctgaccagcggcgtgcacaccttcccggctgtcctacagtcctcaggactctactccctcagcagcgtggtgaccgtgccctccagcagcttgggcacccagacctacatctgcaacgtgaatcacaagcccagcaacaccaaggtgg ccaccgtgcccaggtaagccaggcctaggcctcagctcaaggcgggacaggtgccctagagtagcctgcatccagggac aggccccagccgggtgctgacacgtccacctccatctcttcctcagcacctgaactcctggggggaccgtcagtcttcctcttcccccaaaacccaaggacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtggacgtgagccacgaagaccctgaggtca agttcaactggtacgtggacgtggaggtgcataatgccaagacaaagccgcgggaggagcagtacaacagcacgtaccgtgtggt cag cgt cct cac cgt cct gcac cag gac tgg cag gg tacaa gg tacaa gg tct ccaa caa ag cct cccag cccccatcgagaaaaccatctccaaagccaaaggtgggacccgtggggtgcgagggccacatggacagaggccggctcggcccaccc tctgccctgagagtgaccgctgtaccaacctctgtccctacagggcagccccgagaaccacaggtgtacaccctgccccatcccgg gaggagatgaccaagaaccaggtcagcctgacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaa tgggcagccggagaacaactacaagaccacgcetccgtgctggactccgacggctccttcttcctctatagcaagctcaccgtggac aagagcaggtggcagcagggggaacgtcttctcatgctccgtgatgcatgaggctctgcacaaccactacacgcagaagagcctctcc ctgtctccgggtaaatga3'

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# FIGURE 3A

### CHIR-5.9 light chain:

leader:

MALLAQLLGLLMLWVPGSSG

variable:

AIVMTQPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRPGQPPRLLIYKFFRRLSG VPDRFSGSGAGTDFTLKISRVEAEDVGVYYCMQVTQFPHTFGQGTRLEIK

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK DSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

# FIGURE 3B

#### CHIR-5.9 heavy chain:

leader:

MGSTAILALLLAVLQGVCA

variable:

EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSDTRYSP SFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARGTAAGRDYYYYYGMDVWGQGTTVTVS S

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGL YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV MHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGL YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV MHEALHNHYTOKSLSLSPGK

# FIGURE 4A

# Coding sequence for short isoform of human CD40:

- 1 atggttegte tgeetetgea gtgegteete tggggetget tgetgaeege tgteeateea
- 61 gaaccaccca etgeatgeag agaaaaacag tacetaataa acagteagtg etgttetttg
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
- 181 cettgeggtg aaagegaatt cetagacaee tggaacagag agacaeaetg ceaecageae
- 241 aaatactgcg accccaacct agggcttcgg gtccagcaga agggcacctc agaaacagac
- 301 accatetgea cetgtgaaga aggetggeae tgtacgagtg aggeetgtga gagetgtgte
- 361 etgeaceget eatgetegee eggetttggg gteaageaga ttgetaeagg ggtttetgat
- 421 accatetgeg agecetgece agteggette ttetecaatg tgteatetge tttegaaaaa
- 481 tgtcaccett ggacaaggte eccaggateg getgagagee etggtggtga tecceateat
- 541 cttcgggatc ctgtttgcca tcctcttggt gctggtcttt atcaaaaagg tggccaagaa
- 601 gccaaccaat aa

### FIGURE 4B

### Encoded short isoform of human CD40:

- 1 myrlplqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetecl
- 61 pcgesefldt wnrethchqh kycdpnlglr vqqkgtsetd tictceegwh ctseacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtrspgs aespggdphh
- 181 lrdpvchplg aglyqkggqe anq

### FIGURE 4C

Coding sequence for long isoform of human CD40:

- 1 atggttcgtc tgcctctgca gtgcgtcctc tgggggctgct tgctgaccgc tgtccatcca
- 61 gaaccaccca ctgcatgcag agaaaaacag tacctaataa acagtcagtg ctgttctttg
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
- 181 ccttgcggtg aaagcgaatt cctagacacc tggaacagag agacacactg ccaccagcac
- 241 aaatactgcg accccaacct agggettcgg gtccagcaga agggeacctc agaaacagac
- 301 accatetgea cetgtgaaga aggetggeae tgtacgagtg aggeetgtga gagetgtgte
- 361 etgeaceget eatgetegee eggetttggg gteaageaga ttgetaeagg ggtttetgat
- 421 accatetgeg agecetgeec agteggette ttetecaatg tgteatetge tttegaaaaa
- 481 tgtcaccett ggacaagetg tgagaccaaa gacetggttg tgcaacagge aggeacaaac
- 541 aagactgatg ttgtctgtgg tccccaggat cggctgagag ccctggtggt gatccccatc
- 601 atetteggga teetgtttge eateetettg gtgetggtet ttateaaaaa ggtggeeaag
- 661 aagccaacca ataaggcccc ccaccccaag caggaacccc aggagatcaa ttttcccgac
- 721 gatetteetg geteeaacae tgetgeteea gtgeaggaga etttacatgg atgeeaaceg
- 781 gtcacccagg aggatggcaa agagagtcgc atctcagtgc aggagagaca gtga

### FIGURE 4D

### Encoded long isoform of human CD40:

- 1 mvrlplqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetecl
- 61 pcgesefldt wnrethchqh kycdpnlglr vqqkgtsetd tictceegwh ctseacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtscetk dlvvqqagtn
- 181 ktdvvcgpqd rlralvvipi ifgilfaill vlvfikkvak kptnkaphpk qepqeinfpd
- 241 dlpgsntaap vqetlhgcqp vtqedgkesr isvqerq

FIGURE 5

